

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P229653

Luminaire Tested: **22RLN-LD5-35-UNV-L835-CD1-SVPD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P229653  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36063)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22RLN-LD5-35-UNV-L835-CD1-SVPD1-U  
Description: METALUX 2X2 RLN LED TROFFER WITH SENSOR  
Light Source: (126)3500K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3427.0 lumens  
Efficiency: N/A  
Efficacy: 112.1 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.21 / 1.29  
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')  
CIE Type: Direct

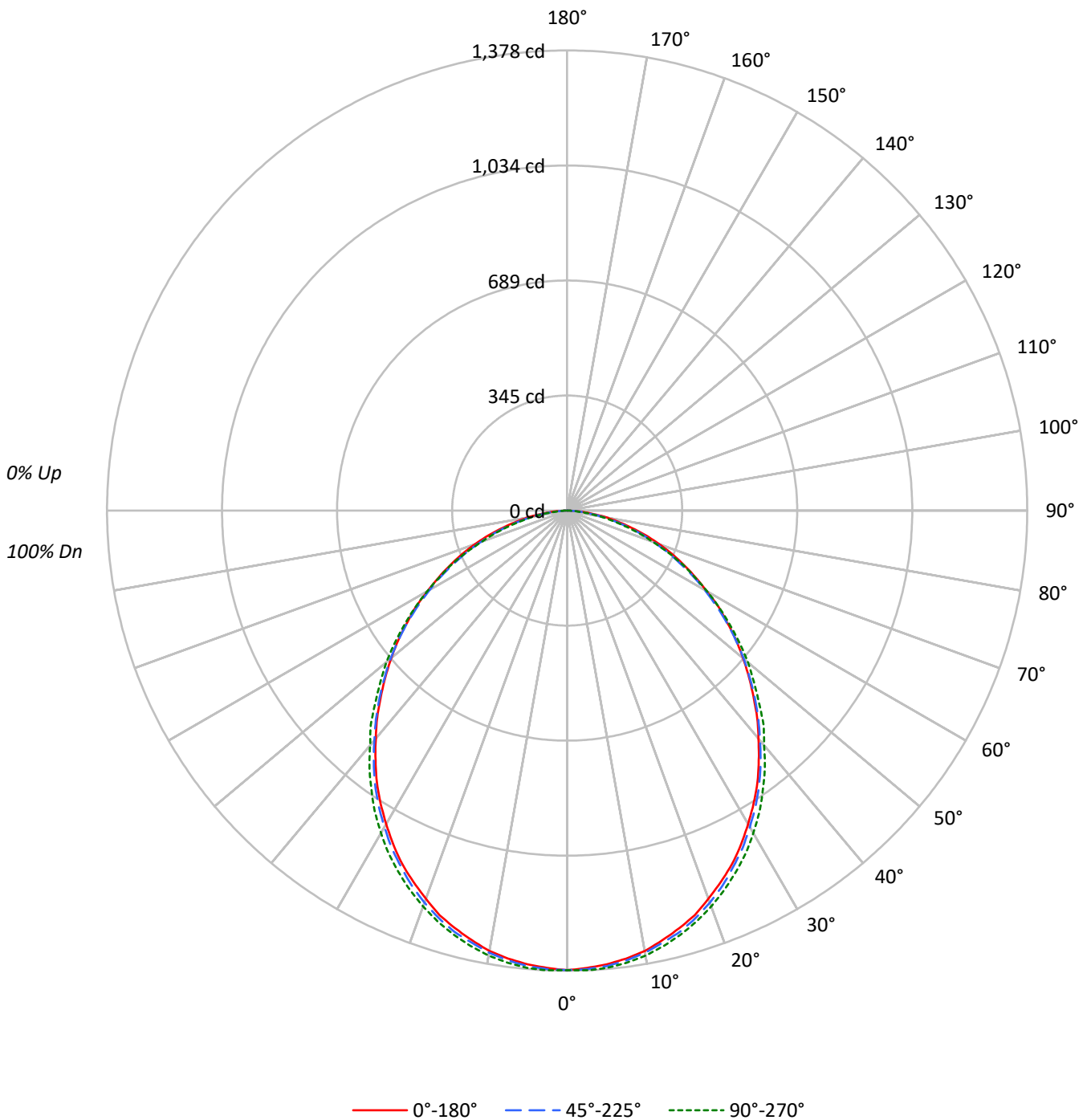
Input Watts (W): 30.57  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	109	105	101	97	107	103	99	95	98	95	92	94	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72					72			
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61					61			
4	84	72	64	57	82	71	63	57	68	62	56	66	60	55	64	59	55	52					52			
5	77	65	56	50	75	64	55	49	62	54	49	60	53	48	58	52	48	46					46			
6	72	59	50	44	70	58	49	43	56	48	43	54	48	43	53	47	42	40					40			
7	66	53	45	39	65	52	44	38	51	44	38	49	43	38	48	42	38	36					36			
8	62	49	40	35	60	48	40	34	47	39	34	45	39	34	44	38	34	32					32			
9	58	45	37	31	57	44	36	31	43	36	31	42	35	31	41	35	31	29					29			
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26					26			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	4407	4407	4407
5°	4384	4401	4418
10°	4355	4372	4401
15°	4294	4329	4358
20°	4216	4258	4300
25°	4128	4159	4221
30°	4007	4046	4124
35°	3885	3920	3996
40°	3728	3757	3838
45°	3575	3599	3679
50°	3424	3441	3521
55°	3266	3256	3316
60°	3092	3047	3103
65°	2924	2818	2884
70°	2739	2590	2540
75°	2486	2289	2203
80°	2243	1949	1820
85°	1749	1360	1165



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	129.9	3.8
10°-20°	367.7	10.7
20°-30°	542.9	15.8
30°-40°	627.8	18.3
40°-50°	615.8	18.0
50°-60°	523.7	15.3
60°-70°	373.0	10.9
70°-80°	199.0	5.8
80°-90°	47.3	1.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1040.5	30.4
0°-40°	1668.3	48.7
0°-60°	2807.7	81.9
0°-90°	3427.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3427.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1376	1376	1376	1376	1376	
5°	1364	1366	1369	1373	1374	129
15°	1295	1297	1306	1313	1314	365
25°	1168	1170	1177	1189	1195	537
35°	994	990	1003	1018	1022	620
45°	789	788	795	809	812	610
55°	585	580	583	590	594	524
65°	386	374	372	374	381	383
75°	201	190	185	182	178	215
85°	48	42	37	32	32	56
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1376.1	1376.1	1376.1	1376.1	1376.1
2.5°	1370.8	1372.6	1374.4	1377.9	1377.9
5°	1363.8	1365.5	1369.1	1372.6	1374.4
7.5°	1353.2	1353.2	1358.5	1362.0	1365.5
10°	1339.1	1340.9	1344.4	1349.7	1353.2
12.5°	1318.0	1321.5	1325.0	1332.1	1335.6
15°	1295.1	1296.8	1305.6	1312.7	1314.5
17.5°	1270.4	1270.4	1279.2	1286.3	1289.8
20°	1236.9	1240.4	1249.3	1258.1	1261.6
22.5°	1203.4	1207.0	1215.8	1224.6	1229.9
25°	1168.2	1170.0	1177.0	1189.3	1194.6
27.5°	1127.7	1131.2	1138.3	1150.6	1157.6
30°	1083.6	1087.2	1094.2	1108.3	1115.3
32.5°	1039.6	1043.1	1050.2	1064.2	1071.3
35°	993.8	990.2	1002.6	1018.4	1022.0
37.5°	942.7	944.4	951.5	965.6	972.6
40°	891.6	891.6	898.6	914.5	918.0
42.5°	842.2	840.5	847.5	861.6	870.4
45°	789.4	787.6	794.7	808.8	812.3
47.5°	738.3	734.8	741.8	754.1	757.7
50°	687.2	683.7	690.7	701.3	706.6
52.5°	637.8	630.8	636.1	644.9	650.2
55°	585.0	579.7	583.2	590.3	593.8
57.5°	537.4	526.8	528.6	535.6	539.2
60°	482.8	474.0	475.7	482.8	484.5
62.5°	433.5	424.6	424.6	426.4	429.9
65°	385.9	373.5	371.8	373.5	380.6
67.5°	340.1	327.7	324.2	324.2	326.0
70°	292.5	280.2	276.6	274.9	271.3
72.5°	248.4	232.6	230.8	225.5	227.3
75°	200.9	190.3	185.0	181.5	178.0
77.5°	158.6	149.8	142.7	137.4	137.4
80°	121.6	109.2	105.7	98.7	98.7
82.5°	81.1	75.8	68.7	63.4	61.7
85°	47.6	42.3	37.0	31.7	31.7
87.5°	17.6	14.1	12.3	12.3	12.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)